

CLAIM AMENDMENTS

IN THE CLAIMS

This listing of the claims will replace all prior versions, and listing, of claims in the application or previous response to office action:

1. (Currently Amended) A ~~method~~battery-powered system for acquiring and transmitting data between two or more ~~positions or fixed~~ locations relative to a detected condition and/or event in a plant, said ~~method~~system comprising ~~the steps~~:

- positioning ~~or locating~~ at least one detector in said plant to detect a condition or event at[[a]] ~~the fixed~~ plant ~~position or~~location;

- positioning at least one battery-powered radio frequency transmitter at a fixed location in said plant in electrical communication with said at least one fixed detector , said transmitter having a transmittable identification code and capable of transmitting [[a]]signals relative to said identification code, the detector, and the battery;

- providing a central processing location for receiving [[a]]signals from said fixed battery-powered transmitter relative to the identification code, a condition or event detected at a ~~position or fixed~~ location in said plant, and the battery; and

- providing at least one other transmitter in communication with said central processing location, said other transmitter capable of transmitting signals relative to a condition or event detected at a ~~position or fixed~~ location in said plant.

2. (Currently Amended) The ~~method~~system of Claim 1, further comprising ~~the step of positioning or locating~~at least one more detector and/or sensor to detect and/or sense a condition or event at a fixed plant ~~position or~~location.

3. (Currently Amended) The ~~method~~system of Claim 2, further comprising ~~positioning~~at least one transmitter in communication with said at least one more detector and/or sensor.

4. **(Currently Amended)** The ~~methodsystem~~ of Claim 3, wherein the one battery-powered radio frequency transmitter is a spread spectrum transmitter.

5. **(Currently Amended)** The ~~methodsystem~~ of Claim 4, wherein the one battery-powered radio frequency transmitter is a 900 megahertz spread spectrum transmitter.

6. **(Currently Amended)** The ~~methodsystem~~ of Claim 1, wherein the one battery-powered radio frequency transmitter is a 900 megahertz spread spectrum transmitter and transmits on predetermined time intervals.

7. **(Currently Amended)** The ~~methodsystem~~ of Claim 1, wherein said at least one other transmitter comprises a radio frequency transmitter.

8. **(Currently Amended)** The ~~methodsystem~~ of Claim 7, wherein said at least one other transmitter comprises a spread spectrum radio frequency transmitter.

9. **(Currently Amended)** The ~~methodsystem~~ of Claim 8, wherein said at least one other transmitter comprises a 900 megahertz spread spectrum radio frequency transmitter.

10. **(Currently Amended)** The ~~methodsystem~~ of Claim 4, wherein said at least one other transmitter comprises a 900 megahertz spread spectrum radio frequency transmitter.

11. **(Canceled)**

12. **(Canceled)**

13. **(Canceled)**

14. (Cancelled)

15. (Cancelled)

16. (Cancelled)

17. (Cancelled)

18. (Cancelled)

19. (Currently Amended) The methodsystem of Claim 1, wherein the at least one detector **sensor** is positioned in communication with a pipe in said plant.

20. (Currently Amended) The methodsystem of Claim 1, wherein the at least one detector is positioned in communication with a valve in said plant.

21. (Currently Amended) The methodsystem of Claim 1, wherein the at least one detector is positioned in communication with an enclosure in said plant.

22. (Currently Amended) The methodsystem of Claim 1, wherein the at least one detector detects a temperature.

23. (Currently Amended) The methodsystem of Claim 1, wherein the at least one detector detects a pressure.

24. (Currently Amended) The methodsystem of Claim 1, wherein the at least one detector detects a level.

25. (Currently Amended) The methodsystem of Claim 21, wherein the at least one detector detects a level.

26. (Currently Amended) The methodsystem of Claim 23, further comprising at least a second detector in said plant, said second detector in electrical communication with at least one battery-powered radio frequency spread spectrum transmitter, said second detector detecting temperature.

27. (Currently Amended) The methodsystem of Claim 21, wherein the at least one detector detects emissions.

28. (Currently Amended) The methodsystem of Claim 21, wherein the at least one detector is an adsorption detector.

29. (Currently Amended) The methodsystem of Claim 1, wherein the at least one detector detects emissions.

30. (Currently Amended) The methodsystem of Claim 1, wherein the at least one detector is positioned in communication with a pipe enclosure.

31. (Currently Amended) The methodsystem of Claim 1, wherein the at least one detector is positioned in communication with a valve stuffing box enclosure.

32. (New) The system of Claim 1 wherein the at least one detector is operable when a voltage from the battery is applied thereto, and the at least one battery powered radio frequency transmitter is a 900 megahertz spread spectrum radio frequency transmitter, said transmitter transmitting signals on predetermined time intervals, and transmits, when appropriate a low batter transmission signal.

33. (New) A battery-powered system for monitoring and/or detecting events and/or conditions in a plant, said system comprising:

an exhaustible power source comprising a battery, said battery supplying a voltage;

a detector located at a fixed location in the plant, said detector operable when voltage is applied thereto and monitoring and/or detecting an event and/or a condition in the plant relating to an enclosure and/or an enclosed material in the plant;

a first transmitter located at a fixed location in the plant, said transmitter operable when voltage is applied thereto, said transmitter in electrical communication with the detector, the transmitter transmitting signals relating to an event and/or condition monitored and/or detected by the detector from a location in the plant, and said transmitter transmitting, when appropriate, a low battery signal;

a second exhaustible power source comprising a battery, said battery supplying a voltage;

a second transmitter located at another fixed location in the plant, said transmitter operable when a voltage is applied thereto by the second exhaustible power source, said transmitter transmitting signals relating to a monitored and/or detected event and/or condition in the plant, and said transmitter transmitting, when appropriate, a low battery signal; and

a central processing location for receiving said signals from said first and second transmitters.

34. (New) A system according to Claim 33, wherein the monitored and/or detected event and/or condition relates to an enclosure and the enclosure is a pipe.

35. (New) A system according to Claim 33, wherein the monitored and/or detected event and/or condition relates to an enclosure and the enclosure is a valve stuffing box.

36. (New) A system according to Claim 33, wherein the monitored and/or detected event and/or condition relates to an enclosure.

37. (New) A system according to Claim 33, wherein the monitored and/or detected event or condition relates to an enclosed material.

38. (New) A system according to Claim 37, wherein the enclosed material is a liquid and the detector monitors and/or detects level.

39. (New) A system according to Claim 33, wherein the detector monitors and/or detects pressure.

40. (New) A system according to Claim 33, wherein the detector monitors and/or detects temperature.

41. (New) A system according to Claim 33, wherein the detector monitors and/or detects more than one event and/or condition.

42. (New) A system according to Claim 33, wherein the event and/or condition relates to an enclosure and the detector monitors and/or detects emissions from the enclosure.

43. (New) A system according to Claim 42, wherein the detector further monitors and/or detects temperature.